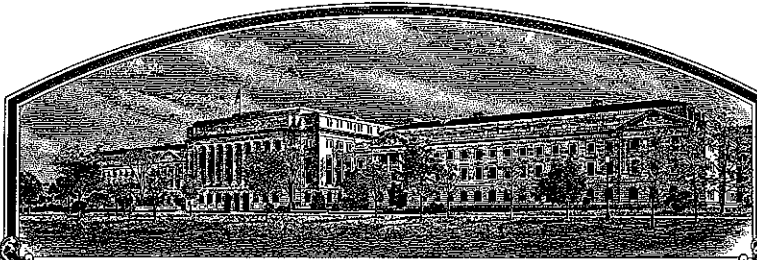


No.

200300134



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

D&H Technology Holding Corp.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

COTTON

'DP 444 BG/RR'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this twenty-sixth day of July, in the year two thousand and five.

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture



U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER D&PL Technology Holding Corp. 5/23/05 <i>WLL</i> COMPANY, LLC		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME 00S13BR 96-7PS0724 BGRR		3. VARIETY NAME DP 444 BG/RR	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) PO Box 157 100 Main Street Scott, Mississippi 38772 USA		5. TELEPHONE (include area code) (662) 742-4141		PVPO NUMBER 200300134	
6. FAX (include area code) (662) 742-3182		9. DATE OF INCORPORATION February 29, 1996		FILING DATE 2/5/03	
7. IF THE OWNER IS NOT A "PERSON" GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation		8. IF INCORPORATED, GIVE STATE OF INCORPORATION Delaware			
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Delta and Pine Land Company Kelly Casavechia P.O. Box 157 Scott, MS 38772				FILING AND EXAMINATION FEE: \$ 2705. DATE 2/5/03 CERTIFICATION FEE: \$ 432.00 DATE 5/23/05	
11. TELEPHONE (include area code) (662) 742-4141		12. FAX (include area code) (662) 742-3182		13. E_MAIL kelly.h.casavechia@deltaandpine.com	
14. CROP KIND (Common Name) Cotton					
15. GENUS AND SPECIES NAME OF CROP <u>Gossypium hirsutum</u>		16. FAMILY NAME (Botanical) Malvaceae		17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse). a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of the Variety d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,450), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)		19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) <input type="checkbox"/> YES (If "yes", answer items 20 and 21 below) <input checked="" type="checkbox"/> NO (If "no", go to item 22)			
20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO		21. IF "YES" TO ITEM 20, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED			
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. C OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)		23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)			
24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF OWNER <i>Curtis Williams</i>		SIGNATURE OF OWNER <i>William V. Hugie</i>			
NAME (Please print or type) Curtis Williams		NAME (Please print or type) William V. Hugie			
CAPACITY OR TITLE Cotton Breeder		DATE 02/03/03		CAPACITY OR TITLE Vice President/Director of Research	
				DATE 02/04/2003	

Instructions

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (*in the sense that it will reproduce an entire plant*) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. **Retain one copy for your files.** All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office
Telephone: (301) 504-5518
FAX: (301) 504-5291
Homepage: <http://www.ams.usda.gov/science/pvpo/pvp.htm>

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ITEM

- 18a. Give: (1) the genealogy, including public and commercial varieites, lines, or clones used, and the breeding method
(2) the details of subsequent stages of selection and multiplication;
(3) evidence of uniformity and stability; and
(4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of realted varieties:
- (1) Identify these varieties and state all differences objectively;
(2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
(3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
19. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

Bollgard® with Roundup Ready® cotton

THESE SEEDS ARE COVERED UNDER U. S. PATENTS 5,633,435; 5,500,365; 5,424,200; 5,359,142; 5,352,605; 5,530,196; 5,322,938; 5,196,525; 5,188,642; 5,164,316; 4,940,835; 5,717,084; 5,728,925; and 5,804,425.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705.

Telephone: (301) 504-8089. <http://www.ams.usda.gov/lsg/seed/lsg-sd.htm>

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U. S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5864 (voice and TDD). USDA is an equal opportunity provider and employer.

S&T -470 (04-01) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces STD-470 (02-99) which is obsolete.

**Plant Variety Protection Application
Exhibit A**

ORIGIN AND BREEDING HISTORY

**Delta and Pine Land Company
DP 444 BG/RR**

DP 444 BG/RR is an early maturity transgenic upland picker cotton variety developed by Delta and Pine Land Company. It has the Monsanto developed gene from *Bacillus thuringiensis* (Bt) and the EPSPS gene that gives tolerance to certain lepidopteran insects and the herbicide glyphosate, respectively.

DP 444 BG/RR was selected at Coy, AR from the cross 2*SG501/2/ST132/3/H1330/4/Coker 312.531//2*DP51/2/2*H1440/3/DP5415/Coker 312.1445 made in the greenhouse at Stuttgart, AR in 1995. The initial separate crosses of H1330/Coker 312.531 (Bt) and DP 5415/Coker 312.1445 (RR) were made by Monsanto. All succeeding crosses, BT screenings and glyphosate screenings were made at Stuttgart, AR.

The single plant that became DP 444 BG/RR was selected in row 724 in 1996 and was increased in Puerto Rico the winter of 1996-97 under the designation 96-7PS0724 BGRR. It was increased and screened in 1997 and yield tested in 1998-2000 as 96-7PS0724 BG/RR. The experimental name was changed to 00S13BR in 2001 and tested by that name in 2001-2002.

The selection criteria used for DP 444 BG/RR is as follows:

- F2 - Transgenic purity, maturity, plant type.
- F3 - Transgenic purity, maturity, plant type, string out, fall out, leaf pubescence, lint percent.
- F4 - Yield potential, maturity, string out, fall out, lint percent, mic, strength, length, uniformity.
- F5 and higher - Yield, adaptability, fiber properties.

DP 444 BG/RR has been stable and uniform for the major morphological characters, BT and glyphosate tolerance through five years of testing and seed increases. No variants have been observed during this time.

200300134
REPLACEMENT
8/13/04

Plant Variety Protection Application
Exhibit B
Statement of Distinctness

Delta and Pine Land Variety DP 444 BG/RR

DP 444 BG/RR is most similar to SG 501 BR. It differs from SG 501 BR in having higher lint percent, longer fiber and lower micronaire.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Jamie L. Whitten Building, Washington, D.C. 20250. When replying, refer to OMB No. 0581-0055 and form number in your letter. Under the PRA of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact the USDA Office of Communications at (202) 720-2791. To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call (202) 720-7327 (voice) or (202) 720-1127 (TDD). USDA is an equal opportunity employer.

**U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705**

**EXHIBIT C
(COTTON)**

**OBJECTIVE DESCRIPTION OF VARIETY
COTTON (*Gossypium* spp.)**

NAME OF APPLICANT(S) D&PL Technology Holding Corp.	TEMPORARY DESIGNATION 96-7PS0724 BGRR 00S13BR	VARIETY NAME DP 444 BG/RR
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code) P.O. Box 157 Scott, Mississippi 38772		FOR OFFICIAL USE ONLY PVPO NUMBER 200300134

Place the appropriate data that describes the varietal characteristic of this variety in the space provided. Characteristics described, including numerical measurements, should represent those that are typical for the variety. Royal Horticultural Society or any recognized color fan may be used to determine plant colors. Characters marked with an asterisk * indicate necessary characters to be measured.

SPECIFIC VARIETIES USED FOR COMPARISON AS CHECK VARIETIES IN THIS APPLICATION: Use standard regional check varieties which are adapted to your area. One of the comparison varieties must be the most similar variety used in Exhibit B.

Variety 1. SG 501 BR Variety 2. DP 451 B/RR Variety 3. _____

*1. SPECIES:

X *G. hirsutum* L. _____ *G. barbadense* L.

*2. AREA(S) OF ADAPTATION: (A = Adapted, NA = Not Adapted, NT = Not Tested)

<u>A</u> Eastern	<u>D</u> Delta	<u>A</u> Central	<u>NT</u> Blacklands
<u>NT</u> Plains	<u>A</u> Western	<u>A</u> Arizona	<u>NT</u> San Joaquin
<u>Other (Specify):</u> _____			

3. GENERAL: Characteristics which are known to be variable but are still useful for a meaningful description of the variety.

	Application Variety	Comparison Variety 1	Comparison Variety 2	Comparison Variety 3
Plant Habit: Spreading, Intermediate, Compact	<u>Compact</u>	<u>Compact</u>	<u>Compact</u>	_____
Foliage: Sparse, Intermediate, Dense	<u>Sparse</u>	<u>Sparse</u>	<u>Intermediate</u>	_____
Stem Lodging: Lodging, Intermediate, Erect	<u>Intermediate</u>	<u>Intermediate</u>	<u>Intermediate</u>	_____
Fruiting Branch: Clustered, Short, Normal	<u>Short</u>	<u>Short</u>	<u>Normal</u>	_____

3. GENERAL: (continued)

Growth:

Determinate, Intermediate,
Indeterminate

Intermediate Intermediate Intermediate

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Leaf Color:

Greenish yellow, Light green,
Medium green, Dark green

Light Green Light Green Light Green

Boll Shape: Length less than width,

Length equal to width,

Length more than width

Length>Width Length>Width Length>Width

Boll Breadth: Broadest at base,

Broadest at middle

Broadest at Base Broadest at Base Broadest at Base

*4. MATURITY: (50 % Open bolls; Preferred method; Describe method if different method was used.)

Date of 50 % open bolls Sept. 16 Sept. 18 NA

5. PLANT:

Cm to 1st Fruiting Branch:

(from cotyledonary node)

NA NA NA

No. of Nodes to 1st Fruiting Branch:

(excluding cotyledonary node)

4.3 4.7 NA

Mature Plant Height cm:

(from cotyledonary node to terminal)

110 106 105

*6. LEAF: Upper most, fully expanded leaf.

Type: Normal, Sub Okra,

Okra, Super Okra

Normal Normal Normal

Pubescence: Absent, Sparse,

Medium, Dense **OR** Trichomes/cm²

(Bottom surface excluding veins)

Semi-hairy Semi-hairy Sparce

Nectaries: Present or Absent

Present Present Present

*7. STEM PUBESCENCE:

Glabrous, Intermediate, Hairy

Intermediate Intermediate Intermediate

*8. GLANDS: (Gossypol) Absent, Sparse, Normal, More Than Normal

Leaf: Normal Normal Normal

Stem: Normal Normal Normal

Calyx Lobe: (normal is absent) Normal Normal Normal

*9. FLOWER:

Petals: Cream, Yellow Cream Cream Cream

Pollen: Cream, Yellow Cream Cream Cream

Petal Spot: Present, Absent Absent Absent Absent

*10. SEED:

200300134

Seed Index:

(g/100 seed, fuzzy basis)

10.6 10.9 10.6

Lint Index:

(g lint/100 seeds)

4.36 4.30 4.02

*11. BOLL:

Lint Percent:

X Picked Pulled 39.2 a 37.6 b 34.7 c

OR

Gin Turnout:

Picked Stripped

Number of Seeds per Boll 33.4 33.5 33.7

Grams Seed Cotton per Boll 4.50 4.24 4.71

Number of Locules per Boll 4-5 4-5 4-5

Boll Type:

(Stormproof, Storm Resistant, Open) Open Open Open

12. FIBER PROPERTIES:

Specify Method (HVI or other): HVI

* Length: (inches, 2.5% SL) 1.15 a 1.11 b 1.15 a

* Uniformity: (%) 84 a 84 a 84 a

* Strength, T1 (g/tex) 29.6 a 30.2 a 28.5 b

* Elongation, E1 (%) 11.7 b 12.7 a 11.7 b

* Micronaire: 4.0 a 4.8 c 4.5 b

Fineness (Source)

Yarn Tenacity: (cN/tex, 27 tex)

Yarn Strength: (lbs. 22's)

13. DISEASES: (NT = Not Tested, S = Susceptible, MS = Moderately Susceptible, MR = Moderately Resistant, R = Resistant)

NT *Alternaria macrospora*

NT Fusarium Wilt

NT Anthracnose

NT Phymatotrichum Root Rot

NT Ascochyta Blight

NT *Pythium* (specify species)

NT Bacterial Blight (Race 1)

NT *Rhizoctonia solani*

NT Bacterial Blight (Race 2)

NT Southwestern Cotton Rust

NT Bacterial Blight (Race)

NT *Thielaviopsis basicola*

13. DISEASES : (continued)

NT Diplodia Boll Rot

NT Verticillium Wilt

 Other (specify)

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14. NEMATODES, INSECTS AND PESTS: (NT = Not Tested, S = Susceptible, MS = Moderately Susceptible, MR = Moderately Resistant, R = Resistant)

NT Root-Knot Nematode

NT Reniform Nematode

NT Boll Weevil

NT Grasshopper (specify species):

MR Bollworm

NT Lygus (specify species):

NT Cotton Aphid

R Pink Bollworm

NT Cotton Fleahopper

NT Spider Mite (specify species):

NT Cotton Leafworm

NT Stink Bug (specify species):

NT Cutworm (specify species):

NT Thrips (specify species):

NT Fall Armyworm

R Tobacco Bud Worm

 Other (specify):

15. COMMENTS: Present any additional information that cannot adequately be described in 1 through 13 which significantly distinguishes your variety.

COPY

200300134
REPLACEMENT
8/13/04 WAB

D&P TECHNOLOGY HOLDING COMPANY, LLC.
PVP APPLICATION FOR: DP 444 BG/RR
PVP# 200300134

Response to E-mail Request for F-test Analysis dated 6/18/04

Head to Head Comparisons of DP 444 BG/RR with SG 501 BG/RR

REF	YEAR	REG-ION	EXPT	FIELD	COUNTY	DP 444 BG/RR	SG 501 BG/RR	Lint Yield		Lint Percent		Micronaire		Length		Uniformity Ratio		Strength		Elongation	
						DP 444	SG 501	DP 444	SG 501	DP 444	SG 501	DP 444	SG 501	DP 444	SG 501	DP 444	SG 501	DP 444	SG 501	DP 444	SG 501
						STATB	STATB														
						GA	GA	1850	1854	0	0.40	0.37	1	3.8	4.3	0	1.15	1.11	1	85.4	84.4
	2003	NOSE	IF202	03H105	DARLINGTON	1834	1871	0	0.42	0.38	1	3.6	4.5	0	1.14	1.08	1	82.8	83.5	0	29.1
	2003	NOSE	SC106	08SG106	SAMPSON	1609	1578	1	0.45	0.41	1	3.7	4.3	0	1.15	1.11	1	84.1	83.6	1	29.5
	2003	NOSE	GB107	08GB107	WAYNE	1435	1303	1	0.46	0.42	1	4.0	4.9	0	1.09	1.05	1	83.3	81.7	1	29.6
	2003	NOSE	RM108	03RM108	HALIFAX	953	1046	0	0.42	0.41	1	3.3	4.2	0	1.13	1.08	1	82.9	83.6	0	30.0
	2003	NOSE	LE305	03LE305	WASHINGTON	1445	1486	0	0.38	0.37	1	4.3	5.0	0	1.21	1.17	1	83.3	84.4	0	30.7
	2003	NOSE	MA306	03MA306	MISSISSIPPI	1207	1091	1	0.39	0.37	1	4.2	4.9	0	1.15	1.09	1	84.0	83.7	1	29.0
	2003	NOSE	CY207	03CY207	COY	1158	1146	1	0.39	0.39	0	4.2	5.2	0	1.23	1.17	1	85.9	85.6	1	33.2
	2003	NOSE	PU417	03PU417	SHARKEY	1081	963	1	0.40	0.38	1	2.8	4.9	0	1.13	1.07	1	83.6	82.8	1	28.7
	2003	NOSE	PU418	03PU418	SHARKEY	1023	965	1	0.40	0.38	1	4.1	4.8	0	1.14	1.09	1	82.9	82.6	1	27.6
	2003	RPTX	H825	03H825	HASKELL	1513	1139	1	0.41	0.39	1	4.4	5.3	0	1.16	1.11	1	84.6	84.6	0	29.3
	2003	RPTX	AC628	03AC628	JACKSON	1653	1582	1	0.41	0.39	1	3.9	4.4	0	1.22	1.18	1	85.6	84.3	1	31.3
	2003	HPTX	BN656	03BN656	MARTIN	1394	1321	1	0.42	0.39	1	4.9	5.6	0	1.08	1.05	1	83.6	84.3	0	27.8
	2003	CAZ	CO728	03CO728	PINAL	1731	1638	1	0.42	0.39	1	5.1	5.7	0	1.12	1.13	0	84.4	86.3	0	29.5
						Average		1420	1357	0.42	0.39	4.09	4.86	1.149	1.107	84.03	83.96	29.64	30.16	11.4	12.4
						No. Tests		14		14				14		14		14		14	
						Difference		63		0.03		-0.77		0.041		0.07		-0.52		-0.96	
						F ratio - Analysis of Variance		4.4616		20.229		235.128		14.652		1.227		0.904		3.749	
						Probability of difference - F test		0.0273		<0.0001		<0.00001		0.0004		0.2742		0.3468		0.0940	
						Wins / Losses		10 / 4		13 / 1		0 / 13		13 / 1		8 / 6		6 / 8		0 / 14	

Values in red are derived from the paired t-test routine in the ANALYSIS TOOL PAK add-in

DP 444 BG/RR HEAD TO HEAD COMPARISONS

EXPT	DP 444 BG/RR	DP451 B/RR	SG501 B/RR
14TF0202	2032	1666	1854
14HV0105	1908	1776	1871
14SC0106	1870	1429	1578
14GB0107	1305	1389	1303
14RM0108	1114	971	1046
14LE0305	1490	1438	1486
14MN0306	1287	1125	1091
14CY0307	1148	1156	1146
14PB0417	877	839	963
14PU0418	967	928	985
14HI0525	1120	1090	1139
14AO0526	1653	1562	1582
14SN0656	1375	1180	1321
14CO0728	1507	1506	1638
13TF0214	1996	1970	1784
13HV0116	2145	1796	1969
13LE0311	1497	1351	1374
13MN0312	1331	1225	1261
13PB0431	1004	942	985
13PU0432	1039	971	940
13HI0532	1134	933	1112
13SN0654	1158	1094	1094
13CO0740	1886	1645	1799
13GB0117	1639	1449	1616
12CY0327	1262	1433	1383
12CY0333	1342	1348	1144
12CY0339	1291	1266	1231
12CY0345	1418	1287	1170
12LE0325	1547	1372	1497
12LE0331	1617	1509	1508
12LE0337	1190	1028	1000
12LE0343	1419	1211	1144
12MN0326	1447	1117	1365
12MN0332	1254	1384	1049
12MN0338	1170	946	1167
12MN0344	1204	1147	1242
12SK0336	929	877	862
12SK0342	918	777	938
12SK0348	879	806	899
A01E5CPE101B	1403	1250	
A01W2CPE102B	1234	1174	
A01W4CPE101B	665	679	
A01W4CPE103B	1017	1063	
A01W4CPE105B	368	414	
A01W6CPE101B	1005	1011	
A01W5CPE101B	1680	1609	
A01E7CPE101B	888	507	
A01E3CPE101B	1448	1484	
A01E7CPE102B	2007	2066	
No. Tests		49	39
00S13BR		1328	1368
Check Average		1234	1296
Difference		94**	72**
Wins / Losses		38 / 11	31 / 8
Major Wins (+/- 10% of mean)			
Wins/Ties/Losses		19 / 27 / 3	9 / 30 / 0
Yield Consistency			
Top/Middle/Bottom	26 / 15 / 8	13 / 21 / 5	9 / 23 / 7

Values and significance levels in red are derived from the Paired t-test routine

200300134

SUMMARY ACROSS ALL RESEARCH STAGE 4 EARLY SEASON TESTS - 2001.

	Lint Yield	Rank	Lint Percent	Mic	Len	UR	T1
DP 444 BG/RR	1404	4	41.0	4.1	1.15	84	29.6
SG 501 B/RR	1357	6	38.9	4.8	1.11	84	30.2
DP 451 B/RR	1290	8	36.6	4.5	1.15	84	28.5
No. Tests	14	14	14	14	14	14	14

Tifton, Ga; Hartsville, SC; Goldsboro, NC; Spivey's Corner, NC; Rocky Mount, NC; Leland, Ms; Manila, Ar; Panther Burn, Ms (Treated and Untreated); Haskell, Tx; Altus, Ok; Stanton, Tx and Coolidge, Az.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

1. NAME OF APPLICANT(S) D&PL TECHNOLOGY HOLDING CORP. w/h/ 5/23/05 COMPANY, LLC	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER 00S13BR 96-7PS0724 BGRR	3. VARIETY NAME DP 444 BG/RR
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) P.O. Box 157 Scott, Mississippi 38772	5. TELEPHONE (Include area code) (662) 742-4141	6. FAX (Include area code) (662) 742-3182
7. PVPO NUMBER 200300134		

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain. ☒ YES ☐ NO9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country. ☒ YES ☐ NO10. Is the applicant the original owner? ☒ YES ☐ NO If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐ YES ☐ NO If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☐ YES ☐ NO If no, give name of country

11. Additional explanation on ownership (If needed, use the reverse for extra space):

DP 444 BG/RR contains two proprietary genes, patented by the Monsanto Company and licensed to D&PL. One gene encodes an insect toxin and the other encodes a protein providing resistance to the herbicide glyphosate,

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 6 minutes per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provide and employer.